

Atty. Dkt. No. SALK1740-10  
(088802-3218)

**Listing of Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) An isolated mammalian G protein-coupled corticotropin-releasing factor (CRF) receptor protein,

wherein said protein is encoded by DNA that hybridizes under suitable stringency to the complement of polynucleotide sequences set forth in SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9 or SEQ ID NO:14, so as to allow identification of sequences having at least 50% nucleic acid identity with respect to the reference polynucleotide sequences;

wherein said receptor protein binds CRF; and

wherein said protein is at least about 70% pure (by weight of total proteins).

2. (Original) The isolated protein according to claim 1 having sufficient binding affinity for CRF such that concentrations of less than or equal to 10 nanomolar CRF occupy greater than or equal to 50% of the binding sites of said receptor protein.

3. (Original) The isolated protein according to claim 1, wherein said protein is encoded by DNA having at least 60% nucleic acid identity with respect to the reference polynucleotide sequences.

4. (Original) The isolated protein according to claim 1, wherein said protein is encoded by DNA having at least 70% nucleic acid identity with respect to the reference polynucleotide sequences.

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5. (Original) The isolated protein according to claim 1, wherein said protein is encoded by DNA having at least 80% nucleic acid identity with respect to the reference polynucleotide sequences.
6. (Original) The isolated protein according to claim 1, wherein said protein is encoded by DNA having at least 90% nucleic acid identity with respect to the reference polynucleotide sequences.
7. (Original) The isolated protein according to claim 1 having the amino acid sequence set forth in SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10 or SEQ ID NO:15.
8. (Original) The isolated protein according to claim 1 having a radioactive labelling element attached thereto.
9. (Original) The isolated protein according to claim 1, wherein said isolated protein is a recombinant protein.
10. (Original) A composition comprising an isolated protein according to claim 1.
11. (Original) An immunogenic fragment of an isolated mammalian G protein-coupled corticotropin-releasing factor (CRF) receptor protein;  
wherein said protein is encoded by DNA that hybridizes under suitable stringency to the complement of polynucleotide sequences set forth in SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9 or SEQ ID NO:14, so as to allow identification of sequences having at least 50% nucleic acid identity with respect to the reference polynucleotide sequences;  
wherein said receptor protein binds CRF; and  
wherein said protein is at least about 70% pure (by weight of total proteins).

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12. (Withdrawn) An antibody generated against a polypeptide according to claim 11.
13. (Original) A substantially pure polypeptide comprising at least 15 contiguous amino acids of the amino acid sequence set forth in SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10 or SEQ ID NO:15;  
wherein said polypeptide is at least about 70% pure (by weight of total proteins).
14. (Original) The polypeptide according to claim 13, wherein a residue selected from the group consisting of tyrosine, cysteine, lysine, glutamic acid and aspartic acid has been attached by a peptide bond to the carboxyl terminus of said polypeptide.
15. (Original) An isolated mammalian G protein-coupled corticotropin-releasing factor (CRF) receptor protein,  
wherein said protein is encoded by DNA that hybridizes to the complement of polynucleotide sequences set forth in SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9 or SEQ ID NO:14, under hybridization conditions comprising a temperature of about 42 °C, a formamide concentration of about 20% and a salt concentration of about 0.6 M NaCl, followed by wash conditions comprising a temperature of about 42-50 °C and a salt concentration of about 0.3 M NaCl;  
wherein said receptor protein binds CRF; and  
wherein said protein is at least about 70% pure (by weight of total proteins).
16. (Original) The isolated protein according to claim 15, wherein said isolated protein is a recombinant protein.
17. (Original) An isolated mammalian G protein-coupled corticotropin-releasing factor (CRF) receptor protein,

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wherein said protein is encoded by DNA that hybridizes to the complement of polynucleotide sequences set forth in SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9 or SEQ ID NO:14, under hybridization conditions comprising a temperature of about 42 °C, a formamide concentration of about 50%, and a salt concentration of about 5x SSPE, followed by wash conditions comprising a temperature of about 65 °C and a salt concentration of about 0.2x SSPE; wherein said receptor protein binds CRF; and wherein said protein is at least about 70% pure (by weight of total proteins).

18. (Original) The isolated protein according to claim 17, wherein said isolated protein is a recombinant protein.

19. (Original) A diagnostic kit for assaying for the presence in biological fluids of CRF-R protein, CRF-R protein analogs, and/or CRF-R fragments, said kit comprising:

- (a) an isolated mammalian G protein-coupled corticotropin-releasing factor (CRF) receptor protein according to claim 1, and/or
- (b) one or more antibodies generated against said protein or immunologic fragment thereof.